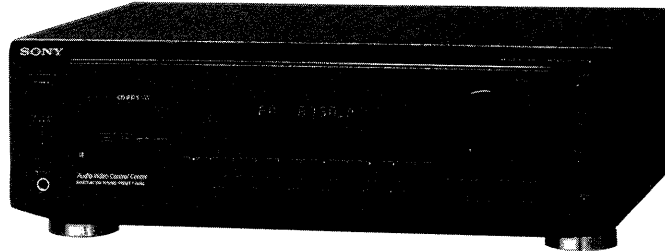


STR-DE205

SERVICE MANUAL

AEP Model



SPECIFICATIONS

Amplifier section

Power output (DIN 1 kHz, 4 ohms)
40 W + 40 W

Frequency response PHONO: RIAA
equalization curve
±0.5 dB
CD, TAPE/MD, VIDEO:
10 Hz - 50 kHz ±1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD	200 mV		
TAPE/ MD, TV, VIDEO	150 mV	50 kilohms	82 dB 82 dB* (A, 150 mV)

* '78 IHF

Outputs TAPE/MD REC OUT:
Voltage 150 mV,
Impedance 10 kilohms
VIDEO AUDIO OUT:
Voltage 150 mV,
Impedance 10 kilohms
PHONES: Accepts low
and high impedance
headphones

Muting Full mute

BASS BOOST +10 dB at 70 Hz

TONE ±8 dB at 100 Hz and
10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Aerial terminals 75 ohms, unbalanced

Sensitivity Mono: 18.3 dBf, 2.2 µV
/75 ohms
Stereo: 38.3 dBf, 22.5 µV
/75 ohms

Usable sensitivity 11.2 dBf, 1 µV
/75 ohms (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz ^{+0.5}₋₂ dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range 522 - 1611 kHz

Aerial Loop aerial

Usable sensitivity 50 dB/m (at 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m,
400 Hz)

Selectivity 35 dB

General

System Tuner section: PLL
quartz-locked digital
synthesizer system
Preamplifier section:
Low-noise NF type
equalizer
Power amplifier section:
Pure-complimentary
SEPP

Power requirements 220-230 V AC, 50/60 Hz

Power consumption 100 W

Dimensions 430 x 145 x 300 mm
(17 x 5 ³/₄ x 11 ³/₄
inches)

Mass (Approx.) 5.1 kg (11 lb 3 oz)

Supplied accessories FM wire aerial (1)
AM loop aerial (1)
Remote controller
(remote) (1)
Size AA (R6) batteries (2)



Design and specifications are subject to
change without notice.

FM STEREO/FM-AM RECEIVER
SONY®

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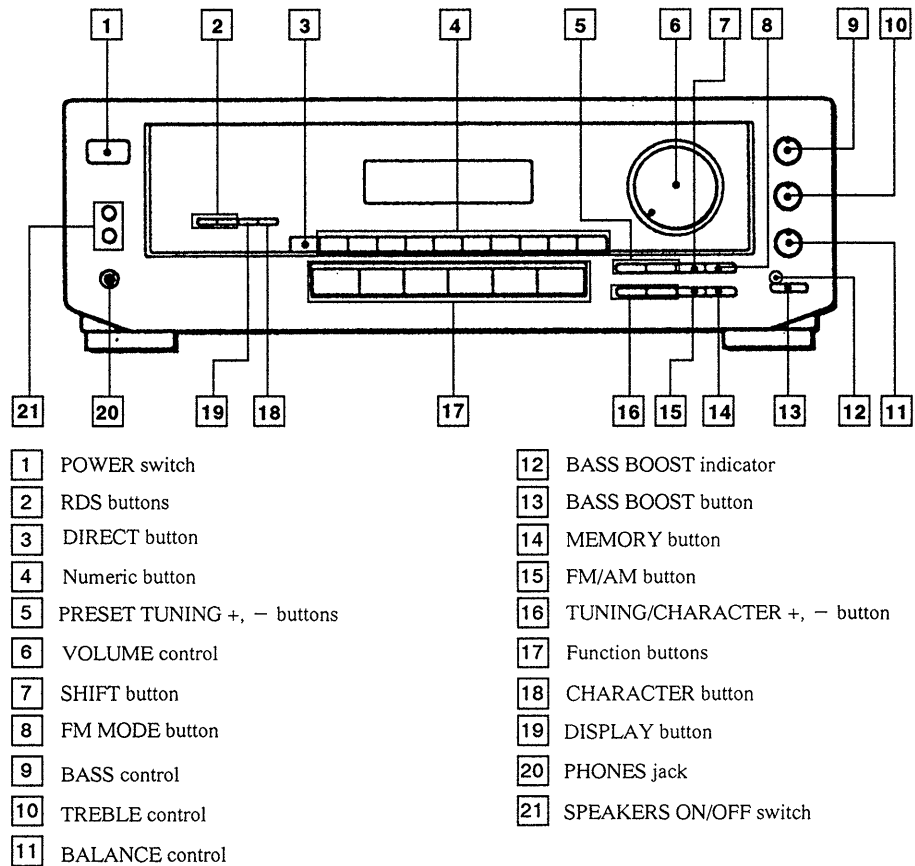
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

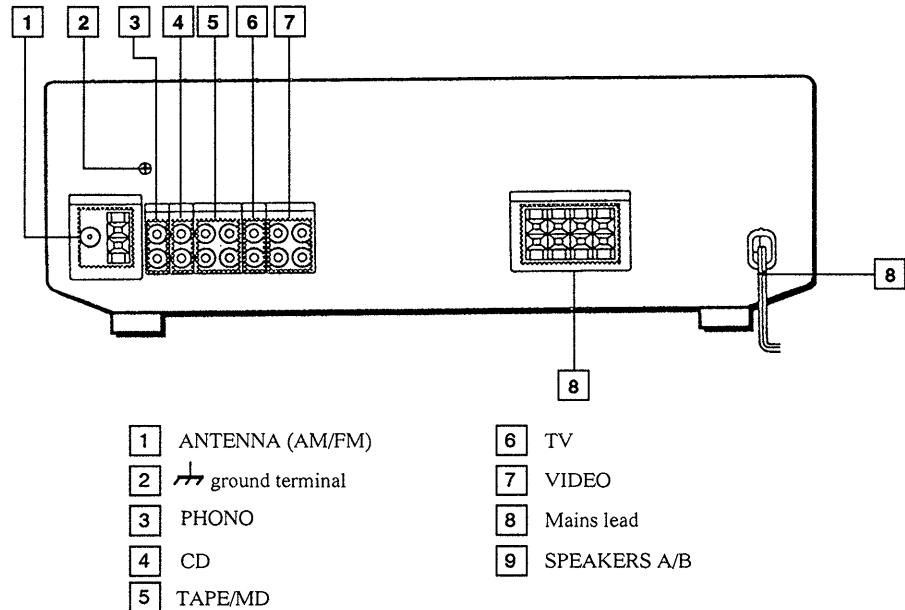
SECTION 1 GENERAL

LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



[REAR PANEL]



SECTION 2 EXPLANATION OF IC TERMINALS

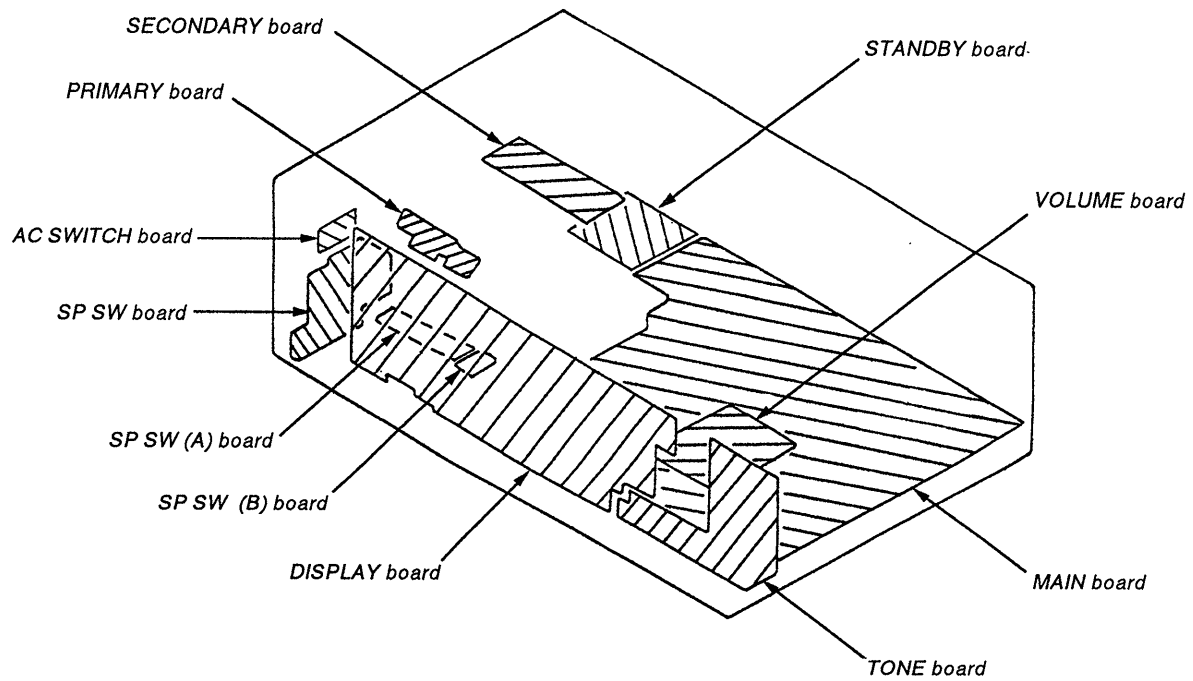
IC201 (μ PD78044AGF-165-3B9)

Pin No.	Pin name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply (+5V).
9	$\overline{S. CLK}$	I	System clock.
10	$\overline{S. DATA}$	I	System data.
11	$\overline{PLL. DATA}$	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	$\overline{S. CE (LV100)}$	—	Not used (Open).
14	VERISON	I	Input for model select.
15	$\overline{PROTECT}$	I	Protector detect input.
16	BRIDGE	—	Not used (Open).
17	\overline{RESET}	I	System reset terminal.
18	$\overline{AUTO-STOP}$	I	Auto stop detect input.
19	$\overline{STEREO-IN}$	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	—	Not used (Open).
23	POWER-RY	O	Power relay drive.
24	DOWN	O	Volume down control.
25	UP	O	Volume up control.
26	SIGNAL	I	A/D signal input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply (+5V).
30	AV. REF	—	Reference voltage (+5V).
31	GND	—	Ground.
32	NC	—	Not used (Open).
33	Vss	—	Ground.
34	X1	—	System clock (4.19MHz).
35	X2	—	System clock (4.19MHz).
36	IC. MUTE	O	Mute drive output for μ PD2581 (IC701).
37	\overline{HALL}	—	Not used (Open).
38	$\overline{THEATER}$	—	Not used (Open).
39	$\overline{PROLOGIC}$	—	Not used (Open).
40	T. MUTE	O	Tuner mute drive output.

Pin No.	Pin name	I/O	Description
41	VIDEO	—	Not used (Open).
42	TV/LD	—	Not used (Open).
43	STANDBY	O	Standby LED drive.
44	SYS. POWER	I	System power ON/OFF.
45	RDS. DATA. IN	I	RDS data input.
46	RDS. CLK. IN	I	RDS clock signal input.
47	STOP	I	Stop signal input from NJM2103D (IC950).
48	Vss	—	Ground.
49	SIRCS	I	SIRCS signal input.
50	POWER SW	I	Power switch input terminal.
51	NC	—	Not used (Open).
52	+5V	—	Power supply (+5V).
53	BASS BOOST	—	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	NC	—	Connect to ground.
56	KI5	I	Key in 5.
57	KI4	I	Key in 4
58	KI3	I	Key in 3
59	KI2	I	Key in 2
60	KI1	I	Key in 1.
61	GND	—	Ground.
62	S15	O	Key out 15.
63	S14	O	Key out 14.
64	S13	O	Key out 13.
65	S12	O	Key out 12.
66	S11	O	Key out 11.
67	S10	O	Key out 10.
68	S9	O	Key out 9.
69	S8	O	Key out 8.
70	S7	O	Key out 7.
71	VLOAD	—	Connect to ground.
72	S6	O	Key out 6.
73	S5	O	Key out 5.
74	S4	O	Key out 4.
75	S3	O	Key out 3.
76	S2	O	Key out 2.
77	S1	O	Key out 1.
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

SECTION 3 DIAGRAMS

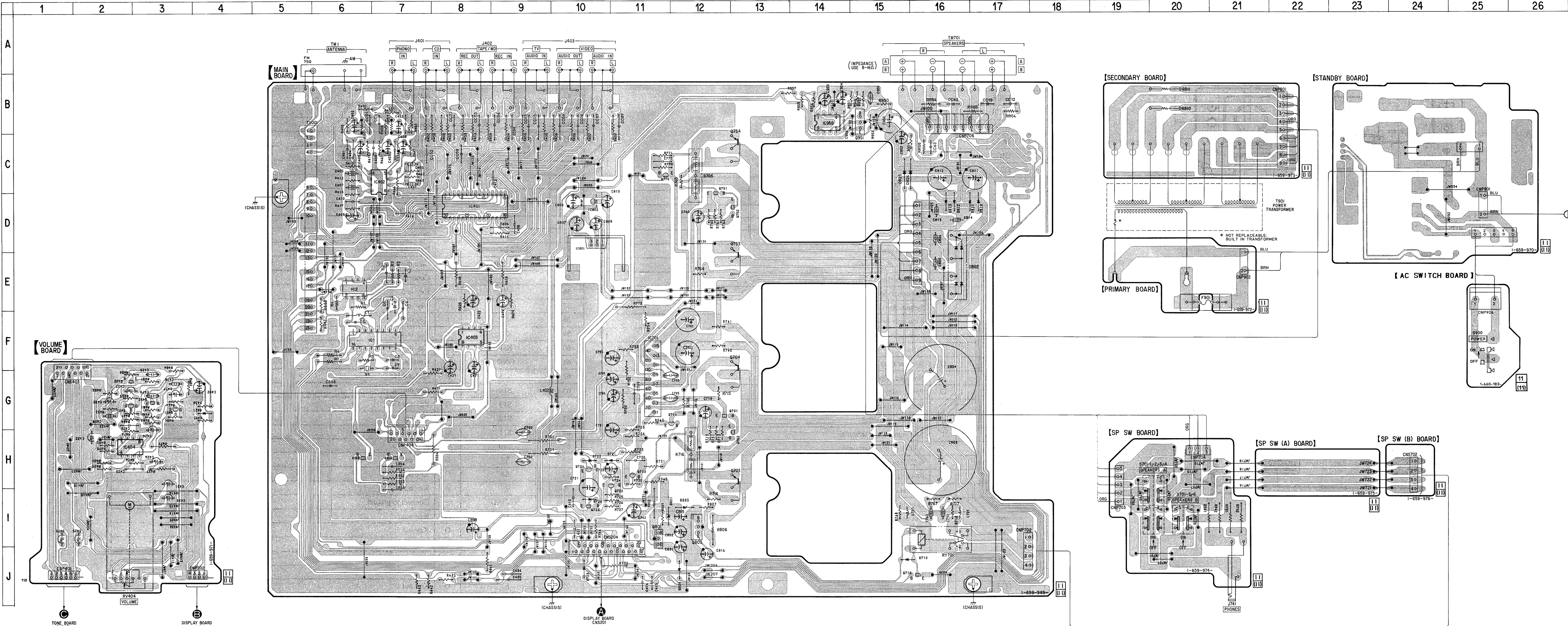
3-1. CIRCUIT BOARDS LOCATION

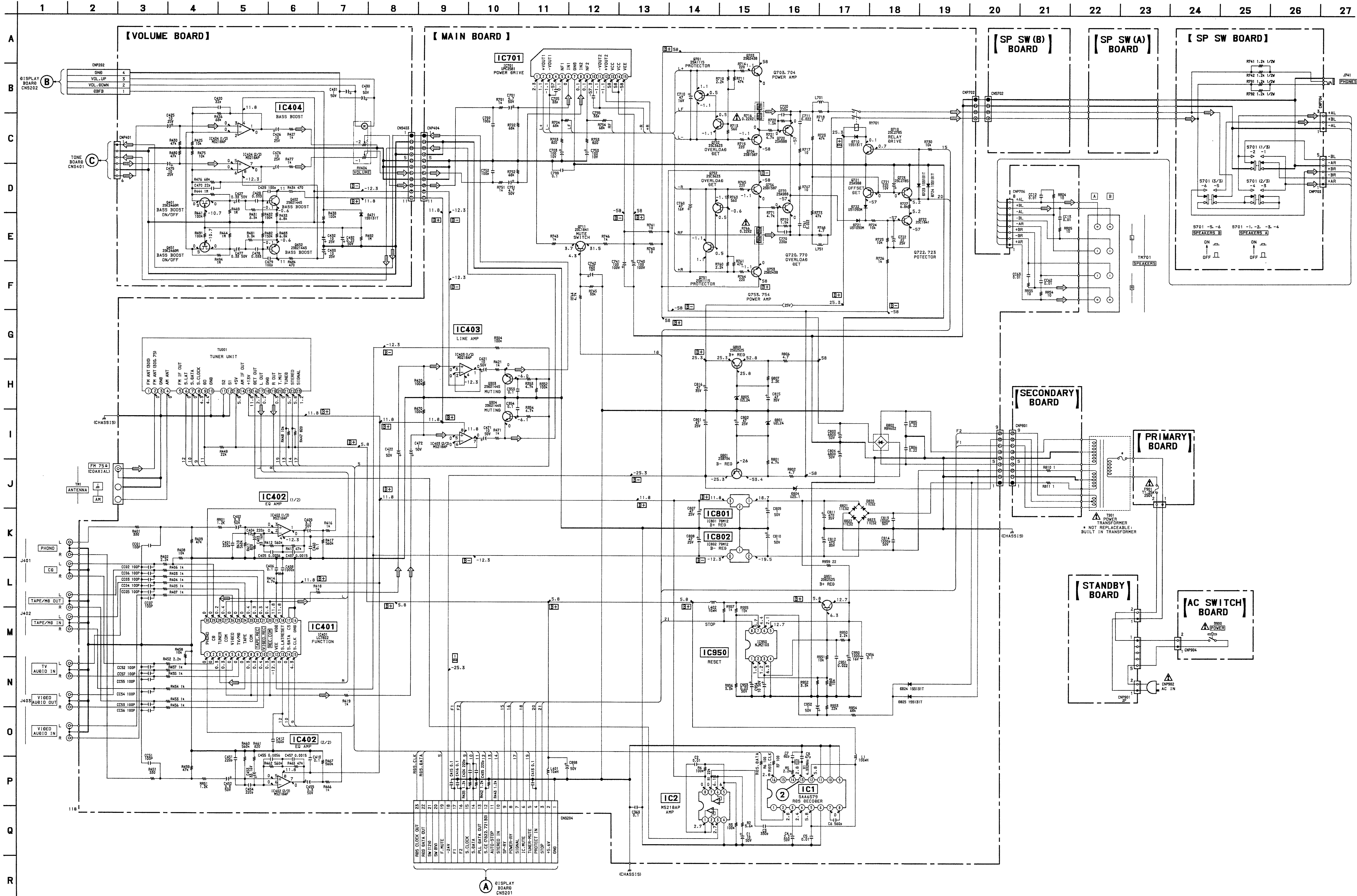


● SEMICONDUCTOR LOCATION

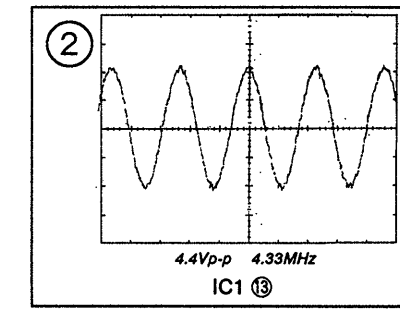
Ref. No.	Location	Ref. No.	Location
D421	G-4	Q303	H-6
D710	J-15	Q304	H-7
D721	H-11	Q401	G-2
D722	H-10	Q402	G-2
D723	J-10	Q451	G-3
D724	I-10	Q452	G-3
D801	I-11	Q701	G-12
D802	E-16	Q702	H-13
D804	J-12	Q703	H-13
D805	I-12	Q704	G-13
D820	D-17	Q710	J-16
D821	D-16	Q711	G-12
D822	D-16	Q720	H-11
D823	D-16	Q721	H-10
D824	C-15	Q722	H-11
D825	C-15	Q723	I-10
		Q751	C-12
		Q752	D-13
		Q753	E-13
		Q754	C-13
IC1	F-6	Q770	C-11
IC2	E-6	Q801	I-11
IC401	D-8	Q803	I-12
IC402	C-7	Q951	B-15
IC403	F-8		
IC404	H-2		
IC701	G-11		
IC801	D-10		
IC802	D-10		
IC950	B-14		

3-2. PRINTED WIRING BOARDS (MAIN SECTION)





● WAVEFORM

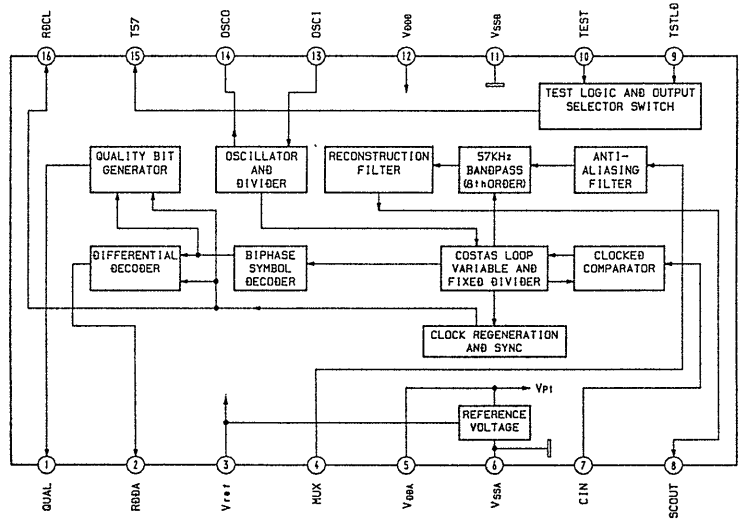


- Note :**
- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 - \square : nonflammable resistor.
 - \square : panel designation.
- Note :** The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

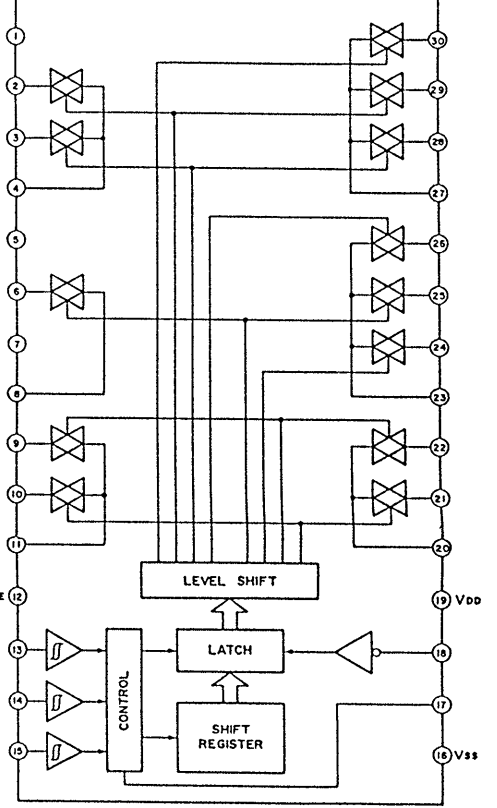
- \square : B+ Line
- \square : B- Line
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \Rightarrow : FM

● IC BLOCK DIAGRAMS – MAIN SECTION –

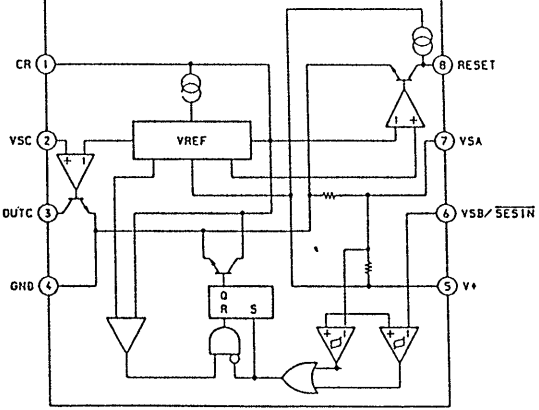
IC1 SAA6579



IC401 LC7822

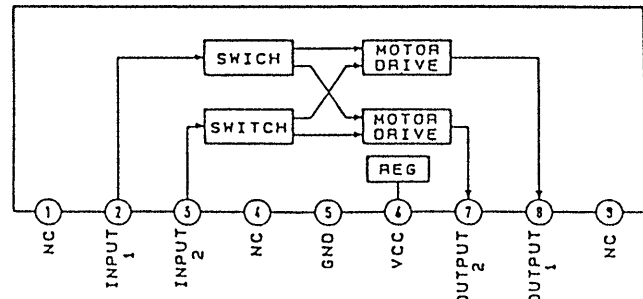


IC950 NJM2103D

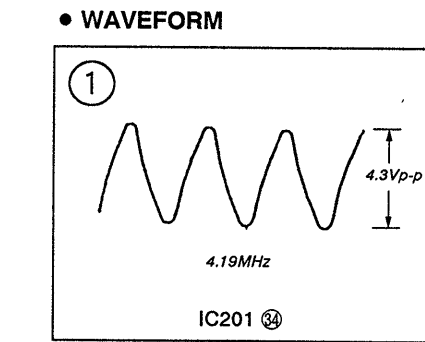
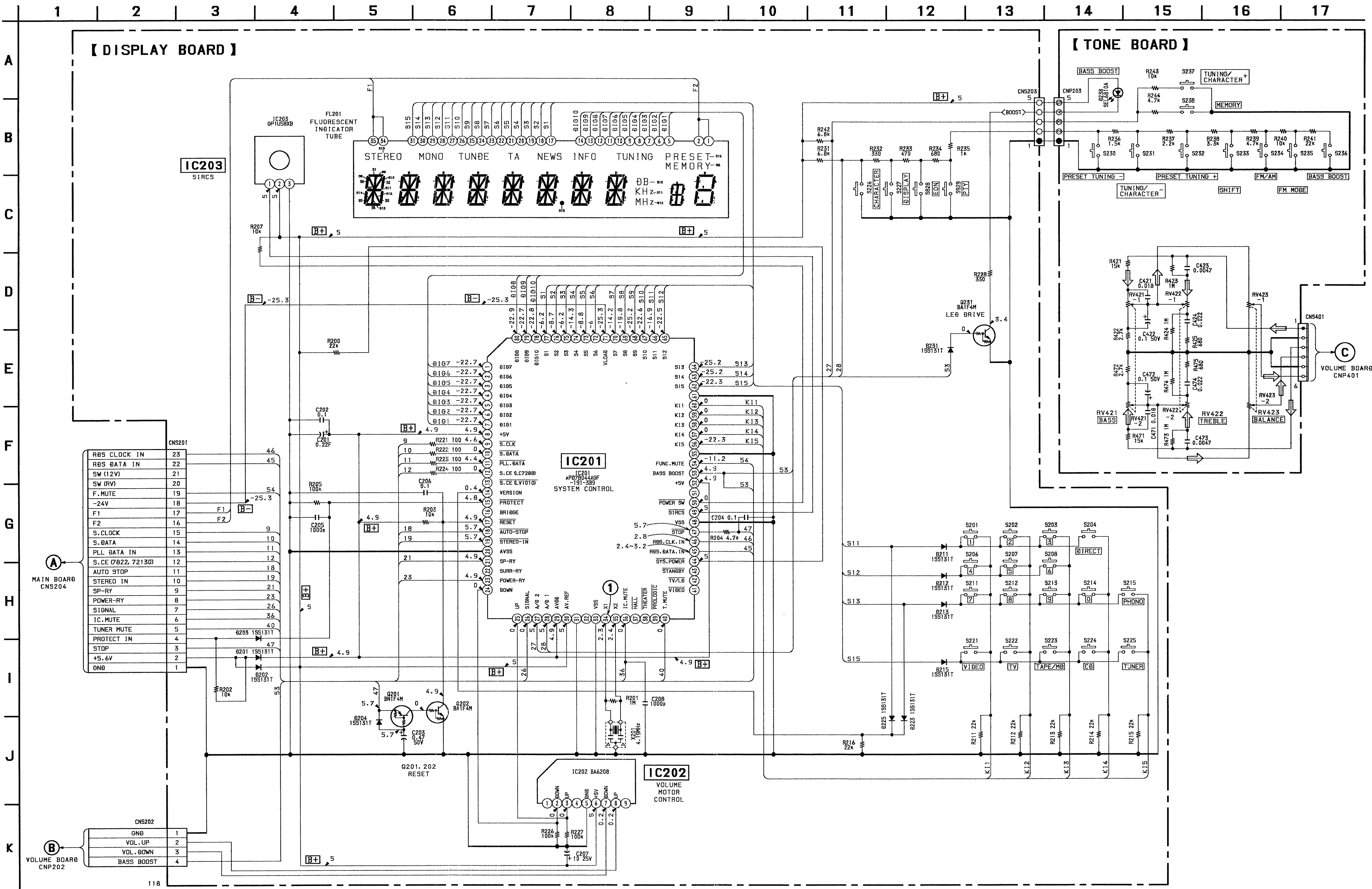


● IC BLOCK DIAGRAM – DISPLAY SECTION –

IC202 BA6208



3-4. SCHEMATIC DIAGRAM (DISPLAY SECTION)



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F
- 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.
- $B+$: B+ Line
- $B-$: B - Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \Rightarrow : FM



Note:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)

SECTION 4 EXPLODED VIEWS

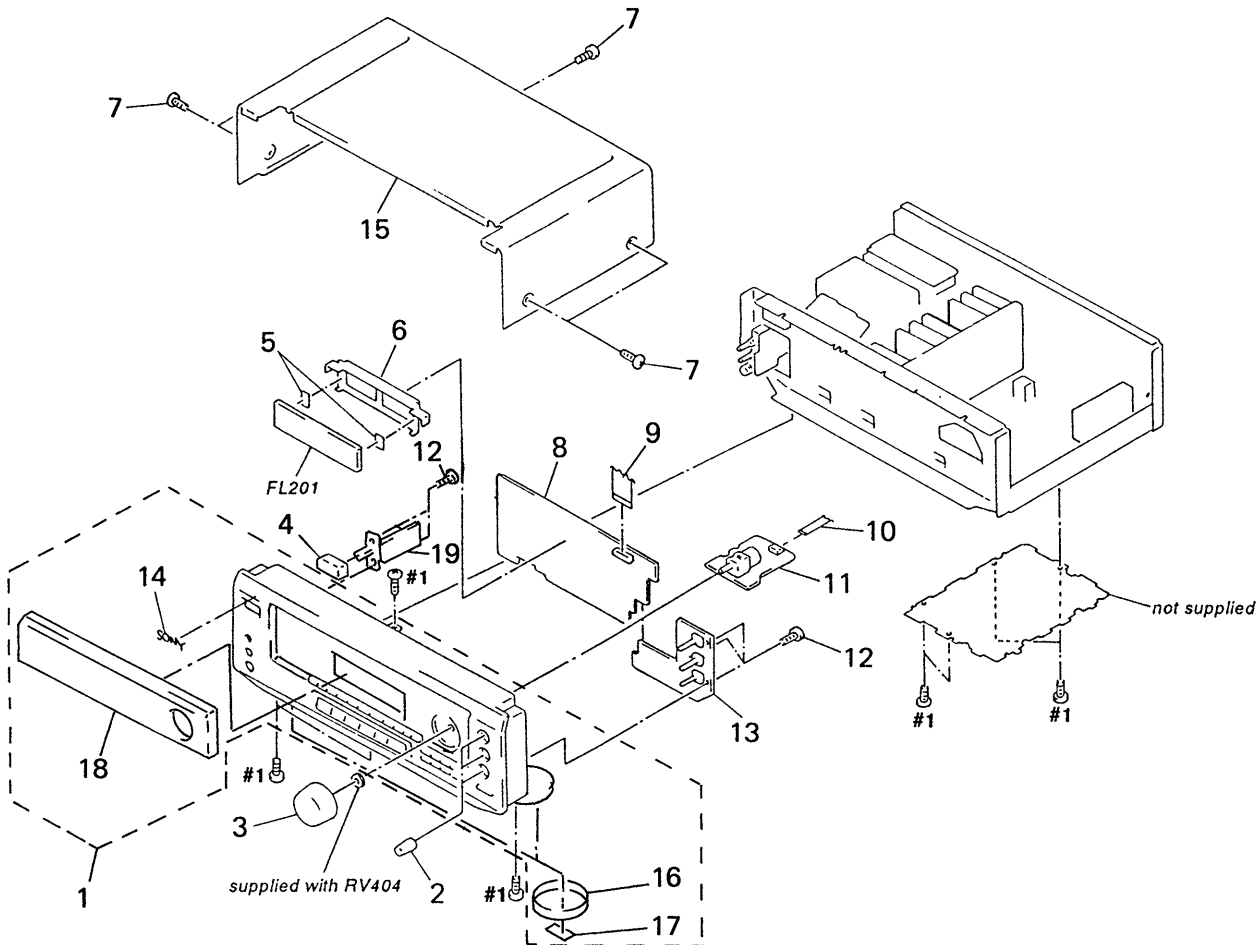
NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

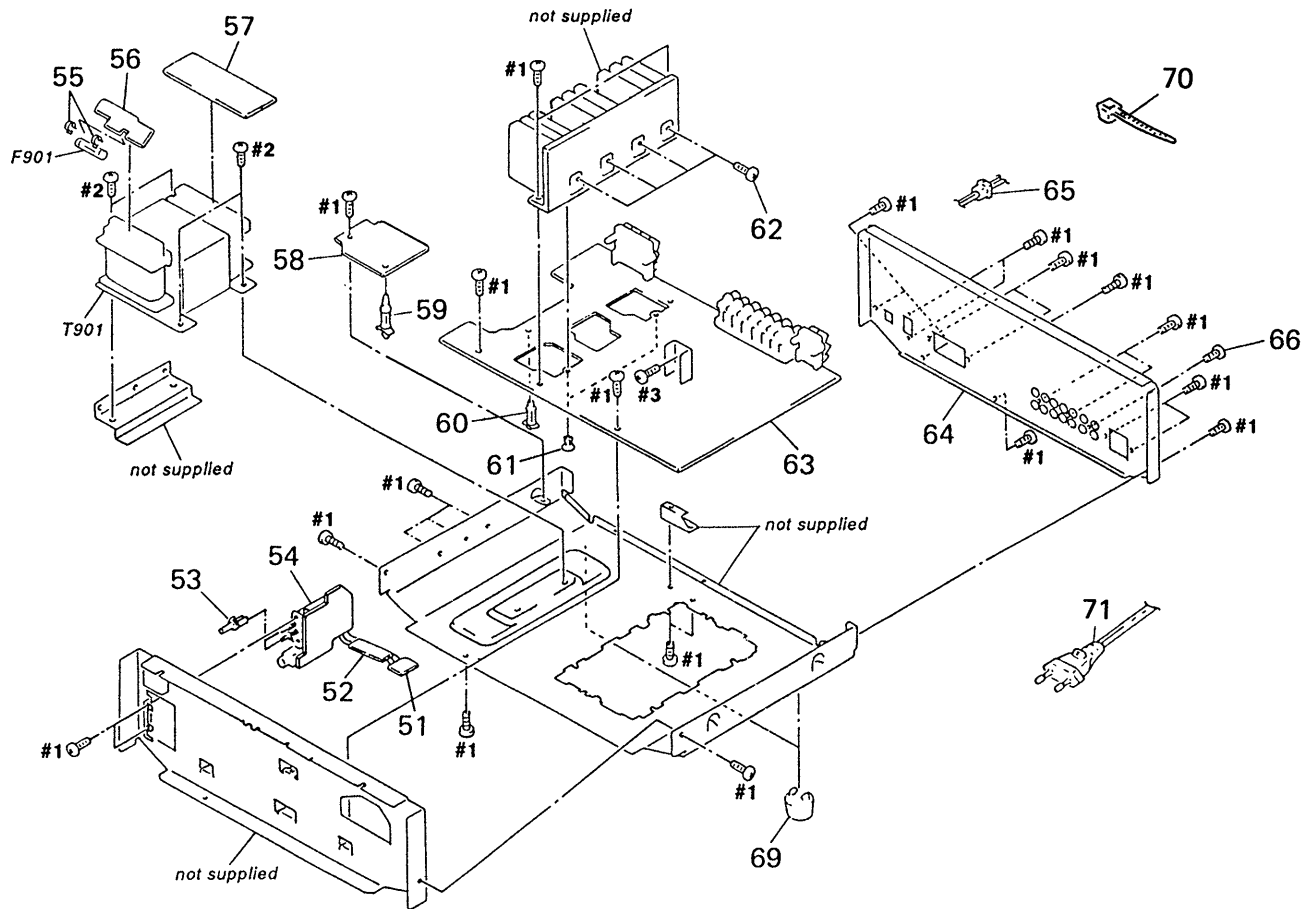
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4946-862-1	PANEL ASSY, FRONT		* 11	A-4389-504-A	VOLUME BOARD, COMPLETE	
2	4-980-639-01	KNOB (R14)		12	4-951-620-01	SCREW (2.6X8), +BVTP	
3	X-4946-873-1	KNOB (R48) ASSY		* 13	A-4389-526-A	STONE BOARD, COMPLETE	
4	4-980-109-01	BUTTON (P-M)		14	4-963-404-21	EMBLEM (5-A), SONY	
* 5	4-921-941-01	CUSHION (FL)		15	4-980-658-11	CASE (413226)	
* 6	4-943-107-11	HOLDER (FL TUBE)		16	4-977-593-11	RING (DIA. 50), ORNAMENTAL	
7	3-704-366-01	SCREW (CASE) (M3X8)		17	4-977-358-11	CUSHION (8X12.5)	
* 8	A-4389-499-A	DISPLAY BOARD, COMPLETE		18	4-980-674-31	PLATE (A2), INDICATION	
9	1-765-343-11	WIRE (FLAT TYPE) (23 CORE)		* 19	1-660-183-11	AC SWITCH BOARD	
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)		FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	1-659-976-11	SP SW (B) BOARD		62	3-905-609-01	SCREW (TRANSISTOR)	
* 52	1-659-975-11	SP SW (A) BOARD		* 63	A-4389-501-A	MAIN BOARD, COMPLETE	
53	4-951-801-01	BUTTON (S)		* 64	4-980-649-01	PANEL, BACK	
* 54	1-659-974-11	SP SW BOARD		65	3-703-244-00	BUSHING, CORD	
55	1-533-233-11	HOLDER, FUSE		66	4-909-982-11	SCREW, TAPPING	
* 56	1-659-972-11	PRIMARY BOARD		69	X-4947-207-1	FOOT ASSY (F50150S)	
* 57	1-659-973-11	SECONDARY BOARD		70	3-701-748-00	CLAMP	
* 58	1-659-970-11	STANDBY BOARD		Δ 71	1-769-744-11	CORD, POWER	
59	4-924-098-01	HOLDER, PC BOARD		Δ F901	1-532-502-51	FUSE, TIME LAG (T1.25AL/ 250V)	
* 60	4-924-098-21	HOLDER, PC BOARD		Δ T901	1-429-515-11	TRANSFORMER, POWER	
61	4-812-134-00	RIVET (DIA. 3.5), NYLON					

AC SWITCH

DISPLAY

SECTION 5
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE :Metal oxide-film resistor
F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u : μ , for example :uA..... : μ A..... , uPA..... : μ PA.....uPB..... : μ PB..... , uPC..... : μ PC.....uPD..... : μ PD.....

● CAPACITORS

uF : μ F

● COILS

uH : μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-660-183-11	AC SWITCH BOARD *****		D212	8-719-815-85	DIODE 1S1585	
		< CONNECTOR >		D213	8-719-815-85	DIODE 1S1585	
CNP904	1-564-321-00	PIN, CONNECTOR 2P		D215	8-719-815-85	DIODE 1S1585	
		< SWITCH >		D223	8-719-815-85	DIODE 1S1585	
Δ S900	1-572-267-51	SWITCH, PUSH (AC POWER)(1 KEY) (POWER) *****		D225	8-719-815-85	DIODE 1S1585	
*	A-4389-499-A	DISPLAY BOARD, COMPLETE *****		D231	8-719-815-85	DIODE 1S1585	
*	4-921-941-01	CUSHION (FL)				< INDICATOR TUBE >	
*	4-943-107-11	HOLDER (FL TUBE)		FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
		< CAPACITOR >				< IC >	
C201	1-104-905-11	CAPACITOR 0.22F 5.5V		IC201	8-759-426-91	IC uPD78044AGF-191-3B9	
C202	1-164-159-21	CERAMIC 0.1uF 50V		IC202	8-759-962-08	IC BA6208	
C203	1-124-465-00	ELECT 0.47uF 20% 50V		IC203	8-749-923-11	IC GP1U58XB	
C204	1-164-159-21	CERAMIC 0.1uF 50V				< TRANSISTOR >	
C205	1-162-294-31	CERAMIC 0.001uF 10% 50V		Q201	8-729-900-63	TRANSISTOR DTA124ES	
C206	1-164-159-21	CERAMIC 0.1uF 50V		Q202	8-729-900-36	TRANSISTOR DTC124ES	
C207	1-126-096-11	ELECT 10uF 20% 35V		Q231	8-729-900-36	TRANSISTOR DTC124ES	
C208	1-162-294-31	CERAMIC 0.001uF 10% 50V				< RESISTOR >	
		< CONNECTOR >		R200	1-247-863-91	CARBON 22K 5% 1/4W	
CNS201	1-568-741-11	SOCKET, CONNECTOR 23P		R201	1-247-903-00	CARBON 1M 5% 1/4W	
CNS202	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P		R202	1-249-429-11	CARBON 10K 5% 1/4W	
* CNS203	1-565-481-11	CONNECTOR, BOARD TO BOARD 5P		R203	1-249-429-11	CARBON 10K 5% 1/4W	
		< DIODE >		R204	1-249-425-11	CARBON 4.7K 5% 1/4W	
D201	8-719-815-85	DIODE 1S1585		R205	1-249-441-11	CARBON 100K 5% 1/4W	
D202	8-719-815-85	DIODE 1S1585		R207	1-249-429-11	CARBON 10K 5% 1/4W	
D203	8-719-815-85	DIODE 1S1585		R211	1-247-863-91	CARBON 22K 5% 1/4W	
D204	8-719-815-85	DIODE 1S1585		R212	1-247-863-91	CARBON 22K 5% 1/4W	
D211	8-719-815-85	DIODE 1S1585		R213	1-247-863-91	CARBON 22K 5% 1/4W	
				R214	1-247-863-91	CARBON 22K 5% 1/4W	
				R215	1-247-863-91	CARBON 22K 5% 1/4W	
				R216	1-247-863-91	CARBON 22K 5% 1/4W	
				R221	1-247-807-31	CARBON 100 5% 1/4W	
				R222	1-247-807-31	CARBON 100 5% 1/4W	

— 25 —

Ref. No.	Part No.	Description	Remark
C770	1-162-286-21	CERAMIC	220PF 10% 50V
C799	1-164-159-21	CERAMIC	0.1uF 50V
C801	1-104-664-11	ELECT	47uF 20% 25V
C802	1-104-664-11	ELECT	47uF 20% 25V
C803	1-128-506-11	ELECT	6800uF 20% 50V
C804	1-128-506-11	ELECT	6800uF 20% 50V
C805	1-130-781-00	FILM	0.22uF 10% 100V
C806	1-130-781-00	FILM	0.22uF 10% 100V
C807	1-104-664-11	ELECT	47uF 20% 25V
C808	1-104-664-11	ELECT	47uF 20% 25V
C809	1-124-903-11	ELECT	1uF 20% 50V
C810	1-124-903-11	ELECT	1uF 20% 50V
C811	1-126-951-11	ELECT	470uF 20% 35V
C812	1-126-951-11	ELECT	470uF 20% 35V
C813	1-164-088-11	CERAMIC	0.001uF 50V
C814	1-164-088-11	CERAMIC	0.001uF 50V
C815	1-126-947-11	ELECT	47uF 20% 35V
C816	1-126-947-11	ELECT	47uF 20% 35V
C898	1-124-903-11	ELECT	1uF 20% 50V
C950	1-126-952-11	ELECT	1000uF 20% 16V
C951	1-164-097-11	CERAMIC	0.022uF 50V
C952	1-124-903-11	ELECT	1uF 20% 50V
C953	1-124-464-11	ELECT	0.22uF 20% 50V
C954	1-126-964-11	ELECT	10uF 20% 50V
C956	1-164-159-21	CERAMIC	0.1uF 50V
CC01	1-162-282-31	CERAMIC	100PF 10% 50V
CC02	1-162-282-31	CERAMIC	100PF 10% 50V
CC03	1-162-282-31	CERAMIC	100PF 10% 50V
CC04	1-162-282-31	CERAMIC	100PF 10% 50V
CC05	1-162-282-31	CERAMIC	100PF 10% 50V
CC06	1-162-282-31	CERAMIC	100PF 10% 50V
CC07	1-162-282-31	CERAMIC	100PF 10% 50V
CC12	1-164-096-11	CERAMIC	0.01uF 50V
CC13	1-164-096-11	CERAMIC	0.01uF 50V
CC51	1-162-282-31	CERAMIC	100PF 10% 50V
CC52	1-162-282-31	CERAMIC	100PF 10% 50V
CC53	1-162-282-31	CERAMIC	100PF 10% 50V
CC54	1-162-282-31	CERAMIC	100PF 10% 50V
CC55	1-162-282-31	CERAMIC	100PF 10% 50V
CC56	1-162-282-31	CERAMIC	100PF 10% 50V
CC57	1-162-282-31	CERAMIC	100PF 10% 50V
CC62	1-164-096-11	CERAMIC	0.01uF 50V
CC63	1-164-096-11	CERAMIC	0.01uF 50V
< CONNECTOR >			
CNP404	1-569-060-11	SOCKET, CONNECTOR 11P	
CNP702	1-770-481-11	PIN, CONNECTOR 4P	
CNP706	1-764-477-11	PIN, CONNECTOR (PC BOARD) 8P	
CNS204	1-568-742-11	SOCKET, CONNECTOR 23P	
< DIODE >			
D710	8-719-815-85	DIODE 1S1585	

Ref. No.	Part No.	Description	Remark
D721	8-719-815-85	DIODE 1S1585	
D722	8-719-815-85	DIODE 1S1585	
D723	8-719-815-85	DIODE 1S1585	
D724	8-719-815-85	DIODE 1S1585	
D801	8-719-002-33	DIODE UZL-24L	
D802	8-719-302-38	DIODE RBV-602-01	
D804	8-719-010-38	DIODE UZ-5.1BSB	
D805	8-719-002-33	DIODE UZL-24L	
D820	8-719-200-82	DIODE 11ES2	
D821	8-719-200-82	DIODE 11ES2	
D822	8-719-200-82	DIODE 11ES2	
D823	8-719-200-82	DIODE 11ES2	
D824	8-719-815-85	DIODE 1S1585	
D825	8-719-815-85	DIODE 1S1585	
< IC >			
IC1	8-759-169-99	IC SAA6579	
IC2	8-759-636-74	IC M5218AP-22	
IC401	8-759-805-14	IC LC7822	
IC402	8-759-636-74	IC M5218AP-22	
IC403	8-759-636-74	IC M5218AP-22	
IC701	8-759-326-52	IC uPC2581V	
IC801	8-759-391-87	IC BA78M12P	
IC802	8-759-700-69	IC NJM79L12A	
IC950	8-759-333-83	IC NJM2103D	
< JACK >			
J401	1-695-188-31	JACK, PIN 4P (PHONO,CD)	
J402	1-770-015-11	JACK, PIN 6P (TAPE/MD)	
J403	1-695-188-31	JACK, PIN 4P (TV,VIDEO)	
< COIL >			
L1	1-410-521-11	INDUCTOR 100uH	
L401	1-410-509-11	INDUCTOR 10uH	
L402	1-410-509-11	INDUCTOR 10uH	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
< TRANSISTOR >			
Q303	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
Q304	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-729-020-72	TRANSISTOR 2SD2438-OPY	
Q704	8-729-020-41	TRANSISTOR 2SB1587-OPY	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q711	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q720	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q721	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q722	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q723	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Q753	8-729-020-72	TRANSISTOR	2SD2438-OPY				R458	1-249-429-11	CARBON	10K	5%	1/4W	
Q754	8-729-020-41	TRANSISTOR	2SB1587-OPY				R459	1-249-437-11	CARBON	47K	5%	1/4W	
Q770	8-729-140-82	TRANSISTOR	2SA988-PAFAEA				R460	1-247-897-11	CARBON	560K	5%	1/4W	
Q801	8-729-140-97	TRANSISTOR	2SB734-34				R461	1-249-416-11	CARBON	820	5%	1/4W	
Q803	8-729-030-18	TRANSISTOR	2SD2525				R462	1-247-897-11	CARBON	560K	5%	1/4W	
Q951	8-729-030-18	TRANSISTOR	2SD2525				R463	1-249-437-11	CARBON	47K	5%	1/4W	
< RESISTOR >							R466	1-249-417-11	CARBON	1K	5%	1/4W	
R1	1-247-863-91	CARBON	22K	5%	1/4W		R467	1-247-897-11	CARBON	560K	5%	1/4W	
R2	1-249-426-11	CARBON	5.6K	5%	1/4W		R470	1-249-441-11	CARBON	100K	5%	1/4W	
R3	1-249-441-11	CARBON	100K	5%	1/4W		R471	1-249-417-11	CARBON	1K	5%	1/4W	
R4	1-249-441-11	CARBON	100K	5%	1/4W		R701	1-249-417-11	CARBON	1K	5%	1/4W	
R5	1-249-421-11	CARBON	2.2K	5%	1/4W		R702	1-249-439-11	CARBON	68K	5%	1/4W	
R6	1-247-807-31	CARBON	100	5%	1/4W		R703	1-249-416-11	CARBON	820	5%	1/4W	
R7	1-247-807-31	CARBON	100	5%	1/4W		R704	1-249-439-11	CARBON	68K	5%	1/4W	
R304	1-249-441-11	CARBON	100K	5%	1/4W		R710	1-249-421-11	CARBON	2.2K	5%	1/4W	
R352	1-249-441-11	CARBON	100K	5%	1/4W		R711	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-249-425-11	CARBON	4.7K	5%	1/4W		R713	1-249-414-11	CARBON	560	5%	1/4W	
R354	1-249-425-11	CARBON	4.7K	5%	1/4W		R714	1-249-409-11	CARBON	220	5%	1/4W	
R401	1-249-411-11	CARBON	330	5%	1/4W		R715	1-249-409-11	CARBON	220	5%	1/4W	
R402	1-249-421-11	CARBON	2.2K	5%	1/4W		△ R716	1-233-352-21	ENCAPSULATED COMPONENT				F
R403	1-249-417-11	CARBON	1K	5%	1/4W		R717	1-249-393-11	CARBON	10	5%	1/4W	
R404	1-249-417-11	CARBON	1K	5%	1/4W		R718	1-249-389-11	CARBON	4.7	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W		R720	1-249-419-11	CARBON	1.5K	5%	1/4W	
R406	1-249-417-11	CARBON	1K	5%	1/4W		R721	1-249-425-11	CARBON	4.7K	5%	1/4W	
R407	1-249-417-11	CARBON	1K	5%	1/4W		R723	1-249-437-11	CARBON	47K	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W		R724	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-437-11	CARBON	47K	5%	1/4W		R725	1-249-429-11	CARBON	10K	5%	1/4W	
R410	1-247-897-11	CARBON	560K	5%	1/4W		R726	1-249-417-11	CARBON	1K	5%	1/4W	
R411	1-249-416-11	CARBON	820	5%	1/4W		R727	1-249-427-11	CARBON	6.8K	5%	1/4W	
R412	1-247-897-11	CARBON	560K	5%	1/4W		R730	1-249-429-11	CARBON	10K	5%	1/4W	
R413	1-249-437-11	CARBON	47K	5%	1/4W		R740	1-249-393-11	CARBON	10	5%	1/4W	
R414	1-249-425-11	CARBON	4.7K	5%	1/4W		R741	1-249-393-11	CARBON	10	5%	1/4W	
R416	1-249-417-11	CARBON	1K	5%	1/4W		R743	1-249-417-11	CARBON	1K	5%	1/4W	
R417	1-247-897-11	CARBON	560K	5%	1/4W		R744	1-249-425-11	CARBON	4.7K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W		R745	1-249-435-11	CARBON	33K	5%	1/4W	
R419	1-249-417-11	CARBON	1K	5%	1/4W		R751	1-249-417-11	CARBON	1K	5%	1/4W	
R420	1-249-441-11	CARBON	100K	5%	1/4W		R752	1-249-439-11	CARBON	68K	5%	1/4W	
R421	1-249-417-11	CARBON	1K	5%	1/4W		R753	1-249-416-11	CARBON	820	5%	1/4W	
R435	1-249-418-11	CARBON	1.2K	5%	1/4W		R754	1-249-439-11	CARBON	68K	5%	1/4W	
R442	1-249-418-11	CARBON	1.2K	5%	1/4W		R760	1-249-421-11	CARBON	2.2K	5%	1/4W	
R443	1-249-418-11	CARBON	1.2K	5%	1/4W		R761	1-249-437-11	CARBON	47K	5%	1/4W	
R447	1-249-416-11	CARBON	820	5%	1/4W		R763	1-249-414-11	CARBON	560	5%	1/4W	
R448	1-249-429-11	CARBON	10K	5%	1/4W		R764	1-249-409-11	CARBON	220	5%	1/4W	
R449	1-247-863-91	CARBON	22K	5%	1/4W		R765	1-249-409-11	CARBON	220	5%	1/4W	
R451	1-249-411-11	CARBON	330	5%	1/4W		△ R766	1-233-352-21	ENCAPSULATED COMPONENT				F
R452	1-249-421-11	CARBON	2.2K	5%	1/4W		R767	1-249-393-11	CARBON	10	5%	1/4W	
R453	1-249-417-11	CARBON	1K	5%	1/4W		R768	1-249-389-11	CARBON	4.7	5%	1/4W	
R454	1-249-417-11	CARBON	1K	5%	1/4W		R770	1-249-419-11	CARBON	1.5K	5%	1/4W	
R455	1-249-417-11	CARBON	1K	5%	1/4W		R771	1-249-425-11	CARBON	4.7K	5%	1/4W	
R456	1-249-417-11	CARBON	1K	5%	1/4W		R773	1-249-437-11	CARBON	47K	5%	1/4W	
R457	1-249-417-11	CARBON	1K	5%	1/4W		R801	1-249-425-11	CARBON	4.7K	5%	1/4W	

<p>The components identified by mark △ or dotted line with mark △ are critical for safety.</p> <p>Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité.</p> <p>Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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MAIN	PRIMARY	SECONDARY	SP SW (A)
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SP SW (B)	SP SW	STANDBY	TONE
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Ref. No.	Part No.	Description	Remark		
R802	1-249-389-11	CARBON	4.7	5%	1/4W
R806	1-249-389-11	CARBON	4.7	5%	1/4W
R807	1-249-421-11	CARBON	2.2K	5%	1/4W
R950	1-249-421-11	CARBON	2.2K	5%	1/4W
R951	1-249-429-11	CARBON	10K	5%	1/4W
R952	1-249-423-11	CARBON	3.3K	5%	1/4W
R953	1-247-863-91	CARBON	22K	5%	1/4W
R954	1-249-439-11	CARBON	68K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-249-423-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W
R959	1-249-397-11	CARBON	22	5%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
RR01	1-249-418-11	CARBON	1.2K	5%	1/4W
RR04	1-249-393-11	CARBON	10	5%	1/4W
RR05	1-249-393-11	CARBON	10	5%	1/4W
RR51	1-249-418-11	CARBON	1.2K	5%	1/4W
RR54	1-249-393-11	CARBON	10	5%	1/4W
RR55	1-249-393-11	CARBON	10	5%	1/4W
		< RELAY >			
RY701	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM1	1-537-714-11	TERMINAL BOARD (ANTENNA)			
TM701	1-537-376-11	TERMINAL BOARD (SPEAKERS)			
		< TUNER >			
TU001	1-233-594-11	ENCAPSULATED COMPONENT			
		< VIBRATOR >			
X1	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			

*	1-659-972-11	PRIMARY BOARD			

	1-533-233-11	HOLDER, FUSE			
		< FUSE >			
△F901	1-532-502-51	FUSE, TIME LAG (T1.25AL/ 250V)			

*	1-659-973-11	SECONDARY BOARD			

		< CONNECTOR >			
CNP801	1-764-478-11	PIN, CONNECTOR (PC BOARD) 9P			
		< RESISTOR >			
R810	1-249-381-11	CARBON	1	5%	1/4W
R811	1-249-381-11	CARBON	1	5%	1/4W

Ref. No.	Part No.	Description	Remark		
*	1-659-975-11	SP SW (A) BOARD			

*	1-659-976-11	SP SW (B) BOARD			

		< CONNECTOR >			
CNS702	1-770-482-11	CONNECTOR, BOARD TO BOARD 4P			

*	1-659-974-11	SP SW BOARD			

		< CONNECTOR >			
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P			
		< JACK >			
J741	1-750-733-11	JACK (LARGE TYPE) (PHONES)			
		< RESISTOR >			
R741	1-260-100-11	CARBON	1.2K	5%	1/2W
R742	1-260-100-11	CARBON	1.2K	5%	1/2W
R791	1-260-100-11	CARBON	1.2K	5%	1/2W
R792	1-260-100-11	CARBON	1.2K	5%	1/2W
		< SWITCH >			
S701	1-762-320-11	SWITCH, PUSH (2 KEY) (SPEAKERS A/B)			

*	1-659-970-11	STANDBY BOARD			

		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR 2P			
		< TRANSFORMER >			
△T901	1-429-515-11	TRANSFORMER, POWER			

*	A-4389-526-A	TONE BOARD, COMPLETE			

		< CAPACITOR >			
C421	1-137-440-11	FILM	0.018uF	5%	50V
C422	1-124-463-00	ELECT	0.1uF	20%	50V
C423	1-137-368-11	FILM	0.0047uF	5%	50V
C424	1-137-372-11	FILM	0.022uF	5%	50V
C471	1-137-440-11	FILM	0.018uF	5%	50V
C472	1-124-463-00	ELECT	0.1uF	20%	50V
C473	1-137-368-11	FILM	0.0047uF	5%	50V

Ref. No.	Part No.	Description	Remark		
C474	1-137-372-11	FILM 0.022uF 5%	50V		
		< CONNECTOR >			
* CNP203	1-569-799-11	PLUG, CONNECTOR 5P			
CNS401	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P			
		< DIODE >			
D238	8-719-313-72	LED SEL3810A-CD (BASS BOOST)			
		< RESISTOR >			
R236	1-249-419-11	CARBON 1.5K 5%	1/4W		
R237	1-249-421-11	CARBON 2.2K 5%	1/4W		
R238	1-249-423-11	CARBON 3.3K 5%	1/4W		
R239	1-249-425-11	CARBON 4.7K 5%	1/4W		
R240	1-249-429-11	CARBON 10K 5%	1/4W		
R241	1-247-863-91	CARBON 22K 5%	1/4W		
R243	1-249-429-11	CARBON 10K 5%	1/4W		
R244	1-249-425-11	CARBON 4.7K 5%	1/4W		
R421	1-249-431-11	CARBON 15K 5%	1/4W		
R422	1-249-422-11	CARBON 2.7K 5%	1/4W		
R423	1-247-903-00	CARBON 1M 5%	1/4W		
R424	1-247-903-00	CARBON 1M 5%	1/4W		
R425	1-249-415-11	CARBON 680 5%	1/4W		
R471	1-249-431-11	CARBON 15K 5%	1/4W		
R472	1-249-422-11	CARBON 2.7K 5%	1/4W		
R473	1-247-903-00	CARBON 1M 5%	1/4W		
R474	1-247-903-00	CARBON 1M 5%	1/4W		
R475	1-249-415-11	CARBON 680 5%	1/4W		
		< VARIABLE RESISTOR >			
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)			
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)			
RV423	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)			
		< SWITCH >			
S230	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)			
S231	1-554-303-21	SWITCH, TACTILE (TUNING -)			
S232	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)			
S233	1-554-303-21	SWITCH, TACTILE (SHIFT)			
S234	1-554-303-21	SWITCH, TACTILE (FM/AM)			
S235	1-554-303-21	SWITCH, TACTILE (FM MODE)			
S236	1-554-303-21	SWITCH, TACTILE (BASS BOOST)			
S237	1-554-303-21	SWITCH, TACTILE (TUNING +)			
S238	1-554-303-21	SWITCH, TACTILE (MEMORY)			

* A-4389-504-A	VOLUME BOARD, COMPLETE				

		< CAPACITOR >			
C420	1-162-207-31	CERAMIC 22PF 5%	50V		
C425	1-126-096-11	ELECT 10uF 20%	35V		

Ref. No.	Part No.	Description	Remark		
C426	1-126-096-11	ELECT 10uF 20%	35V		
C427	1-124-252-00	ELECT 0.33uF 20%	50V		
C428	1-130-489-00	MYLAR 0.033uF 5%	50V		
C429	1-102-973-00	CERAMIC 100PF 5%	50V		
C430	1-126-301-11	ELECT 1uF 20%	50V		
C431	1-126-301-11	ELECT 1uF 20%	50V		
C432	1-126-096-11	ELECT 10uF 20%	35V		
C433	1-126-096-11	ELECT 10uF 20%	35V		
C470	1-162-207-31	CERAMIC 22PF 5%	50V		
C475	1-126-096-11	ELECT 10uF 20%	35V		
C476	1-126-096-11	ELECT 10uF 20%	35V		
C477	1-124-252-00	ELECT 0.33uF 20%	50V		
C478	1-130-489-00	MYLAR 0.033uF 5%	50V		
C479	1-102-973-00	CERAMIC 100PF 5%	50V		
C492	1-124-464-11	ELECT 0.22uF 20%	50V		
		< CONNECTOR >			
CNP202	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP401	1-770-390-11	PIN, CONNECTOR (PC BOARD) 6P			
CNS403	1-569-060-11	SOCKET, CONNECTOR 11P			
		< DIODE >			
D421	8-719-815-85	DIODE 1S1585			
		< IC >			
IC404	8-759-636-74	IC M5218AP-22			
		< TRANSISTOR >			
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q402	8-729-922-37	TRANSISTOR 2SD2144S-UVW			
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q452	8-729-922-37	TRANSISTOR 2SD2144S-UVW			
		< RESISTOR >			
R425	1-249-429-11	CARBON 10K 5%	1/4W		
R426	1-249-439-11	CARBON 68K 5%	1/4W		
R427	1-249-417-11	CARBON 1K 5%	1/4W		
R430	1-249-437-11	CARBON 47K 5%	1/4W		
R431	1-249-423-11	CARBON 3.3K 5%	1/4W		
R432	1-247-883-00	CARBON 150K 5%	1/4W		
R433	1-249-427-11	CARBON 6.8K 5%	1/4W		
R434	1-249-413-11	CARBON 470 5%	1/4W		
R438	1-249-441-11	CARBON 100K 5%	1/4W		
R441	1-249-441-11	CARBON 100K 5%	1/4W		
R444	1-247-903-00	CARBON 1M 5%	1/4W		
R464	1-247-903-00	CARBON 1M 5%	1/4W		
R469	1-247-903-00	CARBON 1M 5%	1/4W		
R475	1-249-429-11	CARBON 10K 5%	1/4W		
R476	1-249-439-11	CARBON 68K 5%	1/4W		
R477	1-249-417-11	CARBON 1K 5%	1/4W		
R480	1-249-437-11	CARBON 47K 5%	1/4W		

VOLUME

Ref. No.	Part No.	Description			Remark
R481	1-249-423-11	CARBON	3.3K	5%	1/4W
R482	1-247-883-00	CARBON	150K	5%	1/4W
R483	1-249-427-11	CARBON	6.8K	5%	1/4W
R484	1-249-413-11	CARBON	470	5%	1/4W
R491	1-249-441-11	CARBON	100K	5%	1/4W
R492	1-247-903-00	CARBON	1M	5%	1/4W
R494	1-247-903-00	CARBON	1M	5%	1/4W

< VARIABLE RESISTOR >

RV404 1-241-426-11 RES, VAR, CARBON 100KX2 (VOLUME)

MISCELLANEOUS

9	1-765-343-11	WIRE (FLAT TYPE) (23 CORE)
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)
55	1-533-233-11	HOLDER, FUSE
△71	1-769-744-11	CORD, POWER
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT

△F901 1-532-502-51 FUSE, TIME LAG (T1.25AL/ 250V)

△T901 1-429-515-11 TRANSFORMER, POWER

ACCESSORIES & PACKING MATERIALS

1-473-633-11	REMOTE COMMANDER (RM-U265)
1-501-374-11	ANTENNA, LOOP
1-501-594-11	ANTENNA (FM)
1-501-721-11	ANTENNA (LOOP)
3-810-995-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUCH)
3-810-995-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, FRENCH, ITALIAN, DANISH)
4-981-643-01	COVER, BATTERY (FOR RM-U265)

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT(B)
#2	7-682-560-04	SCREW +BVTT 4X6 (S)
#3	7-682-548-04	SCREW +BVTT 3X8 (S)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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